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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/539,141	06/16/2005	Simon Murray Cooper	pper PG5049USw 22		
23347 GLAXOSMITH	7590 01/22/201 HKLINE	EXAMINER			
CORPORATE INTELLECTUAL PROPERTY, MAI B482 FIVE MOORE DR., PO BOX 13398 RESEARCH TRIANGLE PARK, NC 27709-3398			MCKANE, ELIZABETH L		
			ART UNIT	PAPER NUMBER	
			1797		
			NOTIFICATION DATE	DELIVERY MODE	
			01/22/2010	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USCIPRTP@GSK.COM LAURA.M.MCCULLEN@GSK.COM JULIE.D.MCFALLS@GSK.COM

Office Action Summary		Ap	pplication No.	Applicant(s)				
		10	0/539,141	COOPER ET AL.				
Office Action Summary			aminer	Art Unit				
		EL	IZABETH L. MCKANE	1797				
Period fo	The MAILING DATE of this communi or Reply	ication appears	s on the cover sheet with the o	correspondence ac	idress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MASSIONS OF time may be available under the provisions SIX (6) MONTHS from the mailing date of this common period for reply is specified above, the maximum state to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	AILING DATE of 37 CFR 1.136(a) unication. ututory period will ap will, by statute, caus	OF THIS COMMUNICATION In no event, however, may a reply be tirely and will expire SIX (6) MONTHS from the the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) file	d on 13 Octob	per 2009.					
•			ion is non-final.					
′=	<i>'</i> —							
- /	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims		•					
4)⊠	Claim(s) 1,11 and 12 is/are pending	in the applicat	tion.					
	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1,11 and 12</u> is/are rejected.							
·	Claim(s) is/are objected to.							
•	Claim(s) are subject to restric	tion and/or ele	ection requirement.					
Applicati	on Papers							
	The specification is objected to by the	Evaminer						
-	•		ed or b) Objected to by the	Examiner				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
					FR 1.121(d).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12)□	Acknowledgment is made of a claim t	for foreian pric	ority under 35 U.S.C. § 119(a)-(d) or (f).				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
,.	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	t(s)							
1) Notic	e of References Cited (PTO-892)		4) 🔲 Interview Summary					
	e of Draftsperson's Patent Drawing Review (P	TO-948)	Paper No(s)/Mail D 5) Notice of Informal F					
_	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date		6) Other:	ατοπι πρριισατίστ				

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 11, and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Subramaniam et al. (US 6,113,795).

Subramaniam et al. teaches a semi-continuous method for producing a particulate pharmaceutical product. The method of Subramaniam et al. includes providing a non-supercritical liquid solution having a pharmaceutical product dissolved therein which is fed into a particle formation vessel 32 by pump 18. A supercritical fluid antisolvent 23,21 is provided by pump 20,22 into the particle formation vessel. See Figure 1. The non-supercritical liquid and the supercritical antisolvent are combined at a pressure above the supercritical point of the supercritical fluid, causing precipitation of the pharmaceutical product. See col.6, lines 1-14. The particulate pharmaceutical product is subsequently isolated from the combined fluids. See col.6, lines 15-31. The step of isolating the pharmaceutical product occurs when the pressure is dropped, converting the CO₂ from a supercritical to a non-supercritical fluid. Thus, the pharmaceutical product is suspended in a non-supercritical fluid. See specifically, col.7, lines 35-37. Subramaniam et al. further discloses that the process can be alternatively a continuous process. See col.7, lines 40-42.

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Response to Arguments

3. Applicant's arguments filed 13 October 2009 have been fully considered but they are not persuasive.

- 4. Applicant argues on page 4 of the Response that Subramaniam et al. fails to isolate particulate in a non-supercritical fluid because the feed output **64** contains only CO₂ and drug particles. However, Subramaniam et al. also teaches that the reduction of pressure permits separation of the particles from the supercritical CO₂. It is this same reduction of pressure that will cause the CO₂ to be non-supercritical. At this point, the CO₂ becomes a non-supercritical fluid, as required by the claims.
- 5. Further, although Applicant argues that the expected product of Subramaniam is not a liquid stream, the examiner notes that the claims do not require a liquid stream. The claims recite a non-supercritical *fluid*, which can of course be either a liquid OR a gas. As the pressure is reduced in Subramaniam et al., the liquid, supercritical CO₂ will change to a *gaseous*, non-supercritical fluid.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELIZABETH L. MCKANE whose telephone number is (571)272-1275. The examiner can normally be reached on Mon-Fri; 5:30 a.m. - 2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth L McKane/ Primary Examiner, Art Unit 1797

elm 18 January 2010